

In re U.S. Patent Application of Jens PETERSEN et al.

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Title: POLYACRYLAMIDE HYDROGEL AND ITS USE AS AN ENDOPROSTHESIS

8. (previously presented) A hydrogel according to claim 1, which has an elasticity module of not less than 20 Pa.

9. (previously presented) A hydrogel according to claim 1, which has an elasticity module from about 35 to 480 Pa.

10. (previously presented) A hydrogel according to claim 1, which has a cross-linking density of about 0.2 to 0.5%.

11. (previously presented) A hydrogel according to claim 1, wherein the acrylamide and methylene bis-acrylamide are combined in the molar ratio of from 175:1 to 800:1.

12. (previously presented) A hydrogel according to claim 1, for use as an implantable endoprosthesis.

13-43. (cancelled)

44. (previously presented) A hydrogel according to claim 1, for use as an injectable endoprosthesis.

45. (previously presented) A hydrogel according to claim 1, wherein the complex viscosity is from 6 to 40 Pas.

46. (currently amended) A hydrogel according to claim 1 for use in an wherein ~~the implantable endoprosthesis further comprises comprising~~ a silicone-based envelope.

47. (previously presented) A hydrogel according to claim 1 further comprising cells for cellular engraftment.

48. (new) A hydrogel according to claim 1 which comprises 0.5 to 3.47% of the polyacrylamide by weight, based on the total weight of the hydrogel.

49. (new) A hydrogel according to claim 1 which comprises 0.5 to 3.4% of the polyacrylamide by weight, based on the total weight of the hydrogel.

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